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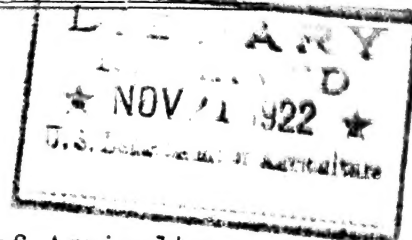
MONTHLY LETTER OF THE BUREAU OF ENTOMOLOGY  
UNITED STATES DEPARTMENT OF AGRICULTURE

Number 102

October, 1922.

CEREAL AND FORAGE INSECT INVESTIGATIONS

W. R. Walton, Entomologist in Charge



At the invitation of A. W. Gilbert, Commissioner of Agriculture of the State of Massachusetts, W. R. Walton visited Boston on October 10 last in order to accompany a party of State and Federal entomologists, legislators, and business men of Massachusetts on a tour of inspection of the areas in Massachusetts most densely infested by the European corn borer. Among the entomologists present were Drs. H. T. Fernald, E. P. Felt, and George G. Atwood, and Profs. A. E. Stene and W. C. O'Kane. State Nursery Inspector McIntire of Maine was also present. Messrs. L. H. Worthley, D. J. Caffrey, and other members of the Arlington staff accompanied the party.

The party left the State House at Boston, Mass., about 10 a. m., visiting heavily infested weed areas on the Charles River Parkway, a field of dent corn on the Alewife Brook Parkway, a celery infestation on the property of E. M. Moore, and corn plots and weed areas on the Mystic Parkway in Arlington. They also viewed a very heavy infestation of chrysanthemums in Anderson's greenhouses on Warren Street, Arlington, and an infestation of beets on Tufts Street in that town. Lunch was then served at the Arlington Laboratory through the courtesy of Commissioner Gilbert.

During the afternoon's tour, the Federal experimental plot on Grove Street, Medford, was examined, and a stop was made at the Russell farm in Winchester, for the purpose of observing an infestation of the corn borer in grape and sumach. A heavy rain, however, interfered with this portion of the program. The party then visited the Kiley farm in Melrose, and the Saugus poor-farm, where very heavy infestations of the insect occurred in sweet corn and various vegetables. The tour ended at Harvard Square, Cambridge.

Those members of the party who were not previously acquainted with the severity of the present infestation in eastern Massachusetts were deeply impressed with the gravity of the situation as regards the market-garden industry in that particular locality, and expressed themselves as believing that these conditions constitute a menace to the agriculture of the surrounding country, including neighboring States. At the conclusion of the tour Commissioner Gilbert expressed the hope that the State of Massachusetts might find it possible to appropriate funds for an effective clean-up campaign, and that he would favor appropriate State legislation for this purpose.



Samuel Blum, of the Columbia, S. C., station, has been granted six months' leave of absence without pay to enable him to proceed to Russia in an effort to rescue his sisters from danger of starvation. He passed through Washington in early October and was accompanied by Philip Luginbill, who spent several days in Washington for official purposes.

W. J. Phillips, in charge of the Charlottesville laboratory, visited the Washington office during early October for the purpose of consultation.

Dexter H. Craig, field assistant in insect control, attached to the corn-borer investigations, resigned from the service, effective September 11, for the purpose of entering a commercial school. Mr. Craig expects eventually to enter a large manufacturing concern in an executive capacity.

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#### BEE CULTURE INVESTIGATIONS

E. F. Phillips, Apiculturist in Charge

The temporary appointments of Effie M. Ross, Winifred S. Hull, and Paul Smith have been terminated, the work for which they were employed having been closed for the season.

The beekeeping seminars, formerly held twice a month, will, for the immediate future, be held only on the second Wednesday of each month at 8 p. m.

Recent visitors at the Bee Culture Laboratory were Dr. S. O. Mast, Johns Hopkins University; H. F. Wilson, University of Wisconsin; George H. Rea, Pennsylvania State College; and Kenneth Hawkins, formerly an agent of the office, now with the G. B. Lewis Company, Watertown, Wis.

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#### FRUIT INSECT INVESTIGATIONS

A. L. Quaintance, Entomologist in Charge

O. I. Snapp, in charge of the Fort Valley, Ga., laboratory, writes as follows:

"The first plum curculio adult of the third generation left the soil in the insectary on October 7. This is an important and interesting discovery in the life history of this insect, on account of its relation to control measures.

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"Some of the curculio adults that transformed during the early fall have made no attempt to leave the soil, and it is believed that some of these late beetles remain in their pupal cells during the winter and do not liberate themselves from the soil until spring.

"Weather conditions during October have been excellent for gassing peach trees, and peach growers in Georgia have put out thousands of pounds of para-dichlorobenzene.

"A delegation of peach growers from South Carolina visited the station during the first week in October to observe experiments under way, and to gather information on the results of recent experiments in peach pest control.

"On October 6, the writer addressed the Fort Valley, Ga., Kiwanis Club on recent results from peach insect investigations under way in central Georgia, and the agricultural possibilities of the section."

James Zetek, in charge of the field station at Ancon, Canal Zone, reports that F. X. Williams, an entomologist of the Hawaiian Sugar Planters' Experiment Station, spent a week at the field station. He left for Ecuador, where he hopes to find the parasites of the sugar-cane wireworm. Should he fail there he intends to return to the Canal Zone and go to the interior of Panama, where favorable facilities for his work have been procured.

Doctor Quaintance, in company with Profs. J. J. Davis and W. P. Flint and Mr. A. J. Ackerman, made an investigation of the San Jose scale situation in orchards in southern Indiana and Illinois. The scale was found to be very abundant and destructive in some orchards and growers are thoroughly alive to the necessity of energetic remedial measures if the orchards are to be saved.

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#### LIBRARY

Mabel Colcord, Librarian

#### New Books

Bedford, H. W. The cotton thrips (Heliothrips indicus, Bagnall) in the Sudan, with a description of its history and habits in the Gezira (Blue Nile Province) and measures for its control. 52 p. illus., pl. 1921. (Wellcome Tropical Research Labs., Kartoum, Ent. Section. Bul. 18)





- Borgmeier, Frei Thomaz. Estudios myrmecologicos, morfologia, anatomia e metamorphose das formigas e destruicao da sauva... Sao Paulo, A. Barbiellini, 1922. 35 p., illus.
- Institution of Civil Engineers (London) Committee on the deterioration of structures of timber, metal and concrete exposed to the action of sea-water. Second (Interim) report. London, His Majesty's Stationery office, 1922. 57 p.
- Leathers, A. L. Ecological study of aquatic midges and some related insects, with special reference to feeding habits. Washington, Government Printing Office, 1922. 61 p., illus. (From Bulletin of the Bureau of Fisheries, v. 38, 1921-22. Doc. 915. May 26, 1922.)
- Leroux, Eugene. ... Osiericulture, culture de l'osier et vanneries d'osier. Paris, Librairie J.-B. Bailliere et fils, 1921. 35 p., illus. (Encyclopedie agricole) Les insectes nuisibles aux osiers, p. 124-144.
- Morton, B. R. Tree-repairing. Ottawa, F. A. Acland, 1922. 23 p., illus. (Canada. Interior Dept. Forestry Branch Bul. 73.)
- Pearson, R. S. Results of antiseptic treatment of sleepers... Calcutta, Superintendent of Government Printing, India, 1922. 49 p., 5 pl., fold. tab. (Indian Forest Records, v. 9, pt. 1.) Notes damage by white ants.
- Peirson, H. B. Mound-building ants in forest plantations. 12 p. In Journal of Forestry, v. 20, no. 4, April, 1922.
- Peirson, H. B. ... Control of the white pine weevil (Pissodes strobi) by forest management. Harvard Forest, Petersham, Mass., 1922. 42 p., illus. (Harvard Forest Bul. 5) Bibliography of economic references, p. 40-42.
- Sharp, David. 1840-1922. (Obituary notice) In Nature, London, v. 110, no. 2763, p. 521-522, October 14, 1922.
- U. S. Department of Agriculture, Yearbook 1921. Washington, Government Printing Office, 1922. 885 p.

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FIELD STATIONS OF THE BUREAU OF ENTOMOLOGY  
AND NAMES OF THOSE IN CHARGE. (OCTOBER, 1922.)

ALABAMA.

Birmingham, Woodlawn Station, Drawer E.

John E. Graf (in charge of field work): Mexican bean beetle.

N. F. Howard (in charge of Birmingham station): Mexican bean beetle.

Silverhill:

S. C. Brummitt: Sweet potato weevil.

ARIZONA.

Tempe, U. S. Entomological Laboratory.

V. L. Wildermuth: Alfalfa insects.

Tucson, Box 1638 (substation of Colorado Springs, Colo.)

W. D. Edmonston: Tree-killing forest insects.

ARKANSAS.

Bentonville.

A. J. Ackerman: Apple insects (San Jose scale).

CALIFORNIA.

Alhambra, 200 South Third St.

R. E. Campbell: Vegetable insects (pea aphid).

A. O. Larson: Bean weevils (common bean weevil and 4-spotted bean weevil).

Fresno, 716 Wilson Ave.

A. J. Flebut: Grape insects.

M. E. Phillips: Insects attacking dried fruits (Indian-meal moth).

North Fork.

John M. Miller: Tree-killing forest insects.

Palo Alto, Box 38.

H. E. Burke: Shade-tree insects.

Riverside, Citrus Experiment Station.

C. F. Stahl: Sugar-beet insects (curly-top leafhopper).

Sacramento, 600 26th St.

C. M. Packard: Wheat insects (wireworms, range crane-flies, and grasshoppers).



CANAL ZONE.

Ancon, P. O. Box 292.

James Zetek: Miscellaneous tropical insects.

COLORADO.

Colorado Springs, Box 423.

W. D. Edmonston: Tree-killing forest insects.

CONNECTICUT.

Wallingford.

B. A. Porter: Miscellaneous fruit insects (apple maggot).

FLORIDA.

Arcadia, Box 551.

S. H. Rountree: Sweet-potato weevil.

Macclenny, Box 205.

W. E. Stone: Sweet-potato weevil.

Miami, Box 1134.

G. F. Moznette: Miscellaneous subtropical insects.

Orlando, Box 491.

W. W. Yothers: Miscellaneous citrus insects (citrus white fly, rust mite, etc.)

Quincy (substation of Clarksville, Tenn.).

F. S. Chamberlain: Tobacco insects (budworm, flea-beetle).

Tampa, Box 1691.

B. L. Boyden: Sweet-potato weevil.

FRANCE.

Hyeres, Le Mont Fenouillet, Var.

W. R. Thompson: European corn borer parasites.

T. R. Chamberlin: Alfalfa weevil parasites.

GEORGIA.

Fort Valley, U. S. Entomological Laboratory.

O. I. Snapp: Miscellaneous peach insects (plum curculio, peach borer).

Thomasville.

S. E. McClendon: Rice or black weevil in corn.



HAWAII.

Honolulu, P. O. Box 340.

H. F. Willard: Mediterranean fruit fly.

IDAHO.

Coeur d'Alene.

J. C. Evenden: Tree-killing forest insects.

ILLINOIS.

Centralia (substation of West Lafayette, Ind.), Box 283 .

W. B. Cartwright: Hessian fly.

INDIANA.

West Lafayette, Box 95.

W. H. Larrimer: Hessian fly, grasshoppers, clover and cereal insects.

IOWA.

Sioux City, 1836 Lemon St.

C.N. Ainslie: Grass-stem sawfly, grasshoppers, and western cutworms.

JAPAN.

Yokohama, 3038 Negishi-Machi.

C. P. Clausen: Japanese beetle parasites.

J. L. King: Japanese beetle parasites.

KANSAS.

Wichita, 126 South Minneapolis Ave.

J. R. Horton: Hessian fly, chinch bug, grasshoppers, white grubs, and wireworms.

LOUISIANA.

Baton Rouge, Louisiana Experiment Station.

C. E. Smith: Vegetable insects.

Mound.

W. V. King: Mosquito investigations.

New Orleans, Audubon Park.

T. E. Holloway: Sugar-cane and rice insects.

H. L. Dozier: Camphor scale investigations.





LOUISIANA (Cont'd.).

Tallulah, Delta Laboratory.

B. R. Coad: Cotton insects (cotton boll weevil).

MARYLAND.

Sligo.

E. H. Siegler: Fruit insect investigations (insecticide investigations).

MASSACHUSETTS.

Arlington, 10 Court St.

D. J. Caffrey: European corn borer (research).

L. H. Worthley: European corn borer (control).

Melrose Highlands, 964 Main St..

A. F. Burgess: Gipsy moth and brown-tail moth headquarters.

Boston, 6 Beacon St.

D. M. Rogers: Gipsy moth and brown-tail moth quarantine operations.

MISSISSIPPI.

Biloxi, Box 205.

K. L. Cockerham: Sweet-potato weevil, new Irish-potato weevil.

Bay St. Louis (substation of Biloxi).

F. A. Wright: Sweet-potato weevil.

Gulfport (substation of Biloxi).

F. R. White: Sweet-potato weevil.

Ocean Springs (substation of Biloxi).

Troy Thompson: Sweet-potato weevil.

MISSOURI.

Webster Groves, 628 Yeddo Ave.

A. F. Satterthwait: Billbugs, Hessian fly, chinch bug, grasshoppers.

MONTANA.

Billings, Box 1094.

Stewart Lockwood: Grasshoppers.



NEW JERSEY.

Riverton, U. S. Entomological Laboratory.

C. H. Hadley: Japanese beetle investigations.

D. E. Fink: Vegetable insects, (bean and potato insects).

Somerville, 1 West Main St.

H. A. Ames: Gipsy-moth control.

NEW YORK.

Middletown, 5 East Ave. (substation of Dallas, Tex.).

R. W. Wells: Ox warbles.

Silver Creek, U. S. Ent. Lab., 40 Hanover Road (substation of Arlington, Mass.)

H. N. Bartley: European corn borer.

NORTH CAROLINA.

Aberdeen, Box 37.

J. B. Gill: Peach insects (plum curculio).

Chadbourn.

W. A. Thomas: Vegetable insects (mole crickets).

OHIO.

Sandusky.

G. A. Runner (Box 230): Grape insects (grape leafhopper).

F. W. Poos (1122 5th St.) (substation of Arlington, Mass.): European corn borer.

OREGON.

Ashland.

J. E. Patterson: Tree-killing forest insects.

Forest Grove.

L. P. Rockwood: Wheat, clover, and alfalfa insects (grasshoppers).

Klamath Falls, Box 446.

Frederick P. Keen: Tree-killing forest insects.

Medford, 512 Dakota Avenue.

M. A. Yothers: Apple insects (codling moth).



PENNSYLVANIA.

Carlisle, U. S. Entomological Laboratory, Kronenburg Bldg.  
P. R. Myers: Hessian fly.

Doylestown.  
C. F. Doucette: Greenhouse insects.

SOUTH CAROLINA.

Columbia, 1420 Pendleton St. (Box 330).  
Philip Luginbill: Corn earworm, southern corn rootworm, grasshoppers,  
larger corn stalk-borer.

TENNESSEE.

Clarksville, Box 346.  
A. C. Morgan: Tobacco insects (hornworm, thrips, etc.).

Knoxville, Route 9 (substation of [REDACTED] W. Lafayette, Ind.).  
G. G. Ainslie: Sod webworms, Hessian fly, clover and alfalfa insects.

TEXAS.

Brownsville, Sugar-cane Insect Laboratory, Box 639.  
T. C. Barber: Sugar-cane and cactus insects.

Brownwood.  
A. I. Fabis: Pecan insects (nut case-bearer).

Dallas, Box 208.  
F. C. Bishopp: Insects affecting animals (screwworm, ox warbles,  
horse-flies, stable fly, lice and mites of poultry).

Gainesville (substation of San Antonio), Box 98.  
E. E. Russell: Grasshoppers (green bug).

Kingsville.  
M. M. High: Vegetable insects (sweet-potato weevil, onion thrips).

San Antonio, Box 1077.  
C. H. Gable: Grasshoppers, green bug, alfalfa insects, corn stalk-  
borer, sorghum midge.

Sonora (substation of Dallas).  
O. G. Babcock: Screwworm and goat lice.

Uvalde (substation of Dallas).  
D. C. Parman: Screwworm and horse-flies.



UTAH.

Salt Lake City, 1525 Edison St.  
George I. Reeves: Alfalfa weevil.

VIRGINIA.

Charlottesville.  
W. J. Phillips: Wheat insects, corn earworm, jointworms, larger corn stalk-borer.

East Falls Church.  
S. A. Rohwer: Forest insect laboratory.

WASHINGTON.

Ritzville, U. S. Entomological Laboratory (substation of Forest Grove, Oreg.).  
M. C. Lane: Wireworms, alfalfa insects.

Yakima, P. O. Box 243.  
E. J. Newcomer: Apple insects (codling moth).

WEST VIRGINIA.

French Creek,  
F. E. Brocks: Nut insects.

WISCONSIN.

Madison, 1532 University Ave.  
J. E. Dudley, jr.: Cucumber beetle and potato insects.

